Beplas®
THE HYGIENIC WALL AND CEILING COMPANY

0800 413 758
beplas.com

elite Komadur

PVC Wall Panels



The ideal choice for Hygienic Applications

- Food and Drink Processing Plants
- Hospitals
- Supermarkets
- Commercial Kitchens
- Prisons
- Sports Facilities
- Restaurants
- Clean Rooms
- Schools

Sheet Sizes	1220 x 2440mm, 2750mm*, 3050mm & 3660mm*
Thickness	2.0mm, 2.5mm (other sizes & thicknesses to order) *2.5mm only
Colours	White as standard
Finish	Sheen with protective film
Fire Safety	Fire Rated to BS 476 Part 7 Class 1

Properties

- Easy to clean
- Low maintenance
- Durable
- Excellent chemical resistance
- Temperature Range –10°c to +60°c
- Manufactured from Food Safe PVC
- Full range of fixing profiles, adhesives and silicones
- Easy to thermoform, drill and bond
- Cost effective
- 20 Year Warranty

elite
hygienic wall and ceiling systems

Elite Komadur PVC Sheets

Technical data

Properties		Unit	Values
Mechanical properties			
Apparent density*	DIN 53479/ISO 1183	g/cm3	~ 1,43
Tensile stress at yield (tensile strength)	DIN 53455/ISO 527	MPa	≥ 55
Elongation at tear	DIN 53455/ISO 527	%	≥ 15
Flexural strength	DIN 53452/ISO 178	MPa	≥ 80
Compressive strength	DIN 53454/ISO 3605	MPa	≥ 70
Modulus of elasticity	DIN 53457/ISO 527-2/1A/50	MPa	≥ 3000
Notched impact strength	DIN 53453/ISO 179-1ePA	KJ/m2	≥ 4
Impact strength	DIN 53453/ISO 179	KJ/m2	
0 °C			no failure
–20 °C			–
–30 °C			–
–40 °C			–
Ball indentation hardness (358 N/30 s)	DIN 53456/ISO 2039	MPa	~ 100
Shore hardness	D DIN 53505		82
Thermal properties			
Vicat softening temperature	DIN 53460/ISO 306 (process B50)	°C	≥ 75
Deflection temperature	DIN 53461/ISO 75	°C	~ 68
Coefficient of linear thermal expansion from –30 °C to +50 °C	(process Ae) DIN 53752	mm/mK	0.08
Thermal conductivity from 0 °C to +60 °C	DIN 52612	W/mK	0.16
Electrical properties			
Dielectric constant Er (at 1 kHz)	VDE 0303 T4	–	3.4
Dielectric dissipation factor tan δ (at 1 kHz)	VDE 0303 T4	–	0.016
Surface resistance	DIN VDE 0303 T30/ DIN IEC 93	Ω	10^{15}
Volume resistivity	DIN VDE 0303 T30/ DIN IEC 93	Ω · m	10^{14}
Dielectric strength	DIN VDE 0303 T21 1 mm sheet	KV/mm	≥ 23
Tracking resistance	DIN IEC 112	Grade	CTI 600
Arc resistance	DIN VDE 0303 T5	Ident. No.	2.2.2.2
Other properties			
Water absorption after 7 days	DIN 53495	%	< 0.08
Fire behaviour	DIN 4102- B 1	–	1–3 mm
	UL 94 (USA) File E100599	–	≥ 1 mm
	BS476 Part 7 BS476 Part 6	Class 1 Class 0**	

*These are standard values which apply to an average density.
**When adhered to a non-combustible substrate

Be-plas Elite-Komadur- Hygienic Wall Systems

Specification PVC Linings to Walls

visit www.beplas.com

Suitable Substrates
Good quality fairfaced brick or blockwork. Well aligned joints bagged up flush. Straight to within 3mm over a 2m straight edge
Sand & cement rendering 1:3 to steel trowel finish.
12.5mm thick plasterboard.
Minimum 9mm W.B.P.
Minimum 9mm MDF.
Ceramic tiles which are clean and securely bonded to substrate.
Certain sound painted surfaces (an adhesive test is advisable to ascertain compatibility).
Plastered surfaces - finished with steel trowel. (pink lightweight plasters generally not suitable).
Porous surfaces to be thoroughly sealed with diluted PVA applied to the surface 12 hours prior to the installation.

Installation Temperature
A minimum ambient temperature of 14°C/57°F is required for installation.

Storage and Conditioning (on site)
Sheets should be stored flat, fully supported and left for 24 hours to attain the ambient room temperature prior to installation (min 14°C).

Substrate Preparation (by others)
Wall substrate must be dry and free from dirt, dust and grease. Remove any wallpaper, loose paint and/or other foreign matter that might impair adhesion.
Remove high spots and fill depressions in substrate surface.

Panels
Supplier: Be-plas Hygienic Walls and Ceilings Ltd
Unit 2 Junction 8 Business Park
Ellesmere Port, Wirral CH65 3AS
Tel: 0800 413 758 Fax: 0151 355 7970

Reference:	Description:	Size:
KPVC24122.5	Elite Komadur PVC Satin	2440 x 1220 x 2.5mm Colour White
KPVC27122.5	Elite Komadur PVC Satin	2750 x 1220 x 2.5mm Colour White
KPVC30122.5	Elite Komadur PVC Satin	3050 x 1220 x 2.5mm Colour White

Fire Rating
Certified to BS476 Part 7 Class 1. Certified to BS476 Part 6 Class 0 when attached to a non-combustible substrate.

Method of Fixing
Use Be-plas adhesive (Ref.Pro 6.5 or 8Kg) or GPPA600 or Multibead.

Joint Detail
All panel joints should be covered with high impact PVC division bars or have hot welded joints

Reference:	Size:
TDB2.4 (two-part flex edge)	2440 x 2.5mm
TDB3.0 (two-part flex edge)	3050 x 2.5mm
DB32.4 (one-part rigid edge)	2440 x 3.0mm
DB33.0 (one-part rigid edge)	3050 x 3.0mm
DB3W2.4 (one-part rigid edge)	2440 x 3.0mm
DB3W3.0 (one-part rigid edge)	3050 x 3.0mm

Edge Detail
Exposed panel edges should be closed with high impact PVC capping sections:

Reference:	Size:
TCS32.4 (rigid edge)	2440 x 3.0mm
TCS33.0 (rigid edge)	3050 x 3.0mm

Corner Detail
Internal corners should be covered with high impact PVC angles or have site thermoformed corners

Reference:	Size:
IA252.4 (heavyweight)	2440 x 25 x 25mm
IA253.0 (heavyweight)	3050 x 25 x 25mm
IA382.4 (heavyweight)	2440 x 38 x 38mm
IA383.0 (heavyweight)	3050 x 38 x 38mm
IA502.4 (heavyweight)	2440 x 50 x 50mm
IA503.0 (heavyweight)	3050 x 50 x 50mm
IAL502.4 (lightweight)	2440 x 50 x 50mm
IAL503.0 (lightweight)	3050 x 50 x 50mm

or alternatively use high impact PVC inside corners:

Reference:	Size:
IC32.4	2440mm
IC33.0	3050mm

External corners should be covered with high impact PVC angles or have site thermoformed corners

Reference:	Size:
OA242.4	2440 x 25 x 25mm
OA243.0)	3050 x 25 x 25mm
OA382.4 (heavyweight)	2440 x 38 x 38mm
OA383.0 (heavyweight)	3050 x 38 x 38mm
OA502.4 (heavyweight)	2440 x 50 x 50mm
OA503.0 (heavyweight)	3050 x 50 x 50mm
OAL502.4 (lightweight)	2440 x 50 x 50mm
OAL503.0 (lightweight)	3050 x 50 x 50mm

or alternatively use high impact PVC outside corners:

Reference:	Size:
OC32.4	2440mm
OC33.0	3050mm

Abutments
- To window frames, door frames. Ask for Be-plas detail drawing E4.
- To resin type flooring. Ask for Be-plas detail drawing E5.
- To quarry tile flooring. Ask for Be-plas detail drawing E6.
- To vinyl flooring. Ask for Be-plas detail drawing E7.

Finishing
Apply Be-plas Food grade silicone sealant (Ref. PSNW) in mouldings and around all panel edges, fasteners and fixtures.

Service Preparations
Allow a 3-4mm gap around all holes for Be-plas FDA approved silicone sealant (Ref. PSNW).

Elite Komadur PVC Sheets

Chemical Resistance

Agent	Concentr. %	Temperature 20°C	60°C
Anorganic chemicals			
Ammonia	24	++	–
Chromated sulphuric acid	–	++	O
Potassium lye	10	++	++
Potassium lye	40	++	++
Aqua regia	–	++	+
Sodium chloride	40	++	++
Sodium hydrosulphide	10	++	++
Sodium hypochloride	40	++	++
Sodium hydroxide	10	++	++
Sodium hydroxide	40	++	++
Phosphoric acid	10	++	++
Phosphoric acid	85	++	++
Nitric acid	10	++	++
Hydrochloric acid	10	++	++
Hydrochloric acid	35	++	++
Sulphuric acid	10	++	++
Sulphuric acid	96	++	++

Agent	Concentr. %	Temperature 20°C	60°C
Organic Chemicals			
Formic acid	10	++	++
Formic acid	100	++	+
Aniline	–	–	–
Ethanol	–	++	+
Petrol-Benzene mixture (BV-Aral)	–	–	–
Benzene	–	–	–
Butanol	–	++	++
Cyclo-hexane	–	++	+
Cyclo-hexanol	–	++	++
Decaline	–	++	++
Diesel fuel	–	++	–
Diethylether	–	–	–
Glacial acethic acid	–	++	–
Acethic acid	10	++	++
Formaline	–	++	+
Glycol	–	++	++
Fuel oil	–	++	not tested
Heptane	–	++	–
Hexane	–	++	++
m-Cresol	–	+	–
White spirit	–	++	O
Machine oil	–	++	++
Methanol	–	++	+
Olive oil	–	++	++
Petrolether	–	++	+
Turpentine oil	–	++	O
Toluene	–	–	–
Transformer oil	–	++	++
Xylene	–	–	–

Key to symbols

++ good resistance	weight diff. below 1%	+ resistant	weight diff. 1 to 5%
O limited resistance	weight diff. 5 to 10%	– no resistance	

Please contact us for resistance to other chemicals.

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THE HYGIENIC WALL AND CEILING COMPANY

Elite PVC sheets offer a cost effective and versatile hygienic wall covering for a wide variety of environments.

A large range of materials, colours and finishes are available to complement existing colour schemes and provide various levels of protection.

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Beplas
THE HYGIENIC WALL AND CEILING COMPANY

ELITE COLOUR PALETTE

OUR **COLOURS**

Elite products are hard wearing, easy to clean and resistant to most chemicals. Our comprehensive product range offers solutions for various levels of impact protection, fire rating, finish and colour.

Call our sales team and use their expertise to find the right product for you.

OUR **SHINE** RANGE...

- 01 RED
- 02 BLUE
- 03 BLACK
- 04 MID GREY
- 05 PINK
- 06 LIME GREEN
- 07 AVOCADO
- 08 GREEN
- 09 ORANGE
- 10 PURPLE

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OUR **PREMIUM PASTEL** RANGE...

- 11 DUCK EGG
- 12 DOVE
- 13 PEPPERMINT
- 14 MUSHROOM

OUR **REGULAR PASTEL** RANGE...

- 15 PASTEL CREAM
- 16 PASTEL GREEN
- 17 PASTEL BLUE
- 18 PASTEL GREY

OUR **WHITE** RANGE...

- 19 COTTON
- 20 GLOSS
- 21 SATIN
- 22 ANTIMICROBIAL STERLING

OUR **CLASSIC** RANGE...

- 23 BLUE
- 24 GREEN
- 25 RED
- 26 YELLOW

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OUR **LEATHER GRAIN** RANGE...

- 27 GREY
- 28 WHITE
- 29 CREAM

OUR **ELITE FRP** RANGE...

- 30 EMBOSSED
- 31 SMOOTH

COLOUR OPTIONS

Due to variations in the photographic and printing process, colours shown may vary from the actual product.

It is advisable to view a product sample before purchasing.

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Rev By	Date	Description Of Revision	Rev No.	Drawing Title: Beplas Elite 2.5mm PVC/FRP Wall Cladding To Floor Detail		
				Contract:		
				Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
				Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-001

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nit 2 Junction 8 Business Park
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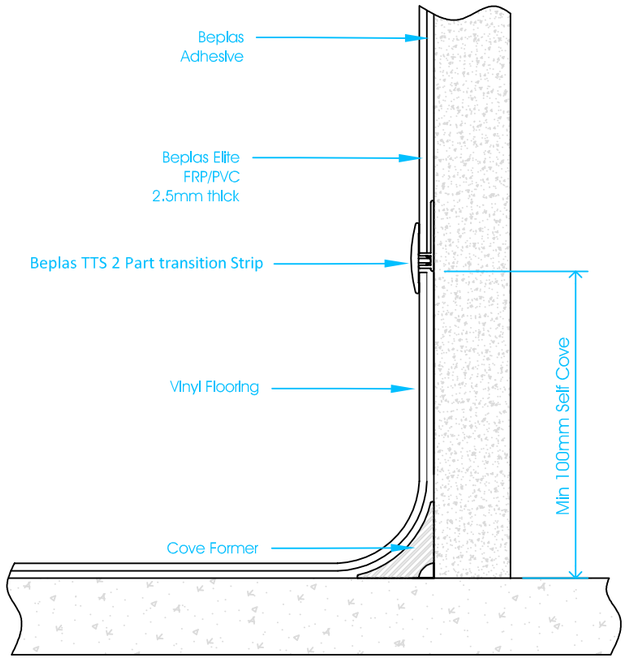

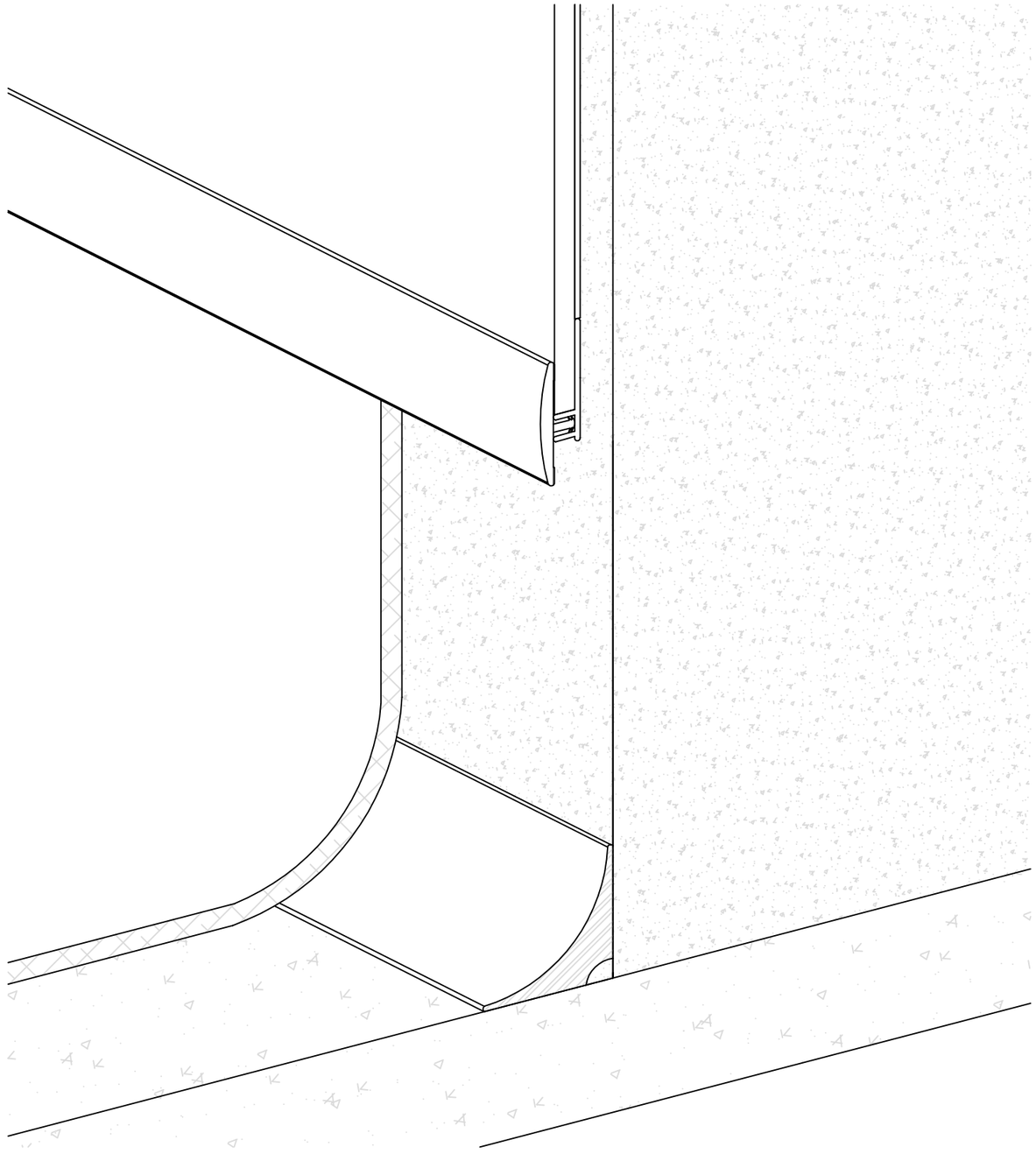

Rev By	Date	Description Of Revision	Rev No.	Drawing Title: Beplas Elite 2.5mm PVC/FRP Vinyl Overlap		
				Contract:		
				Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
				Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-002

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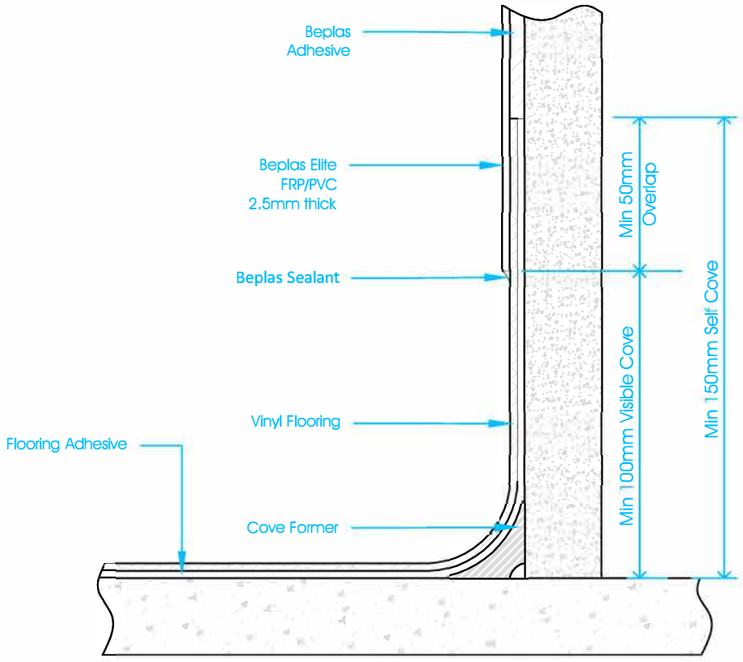

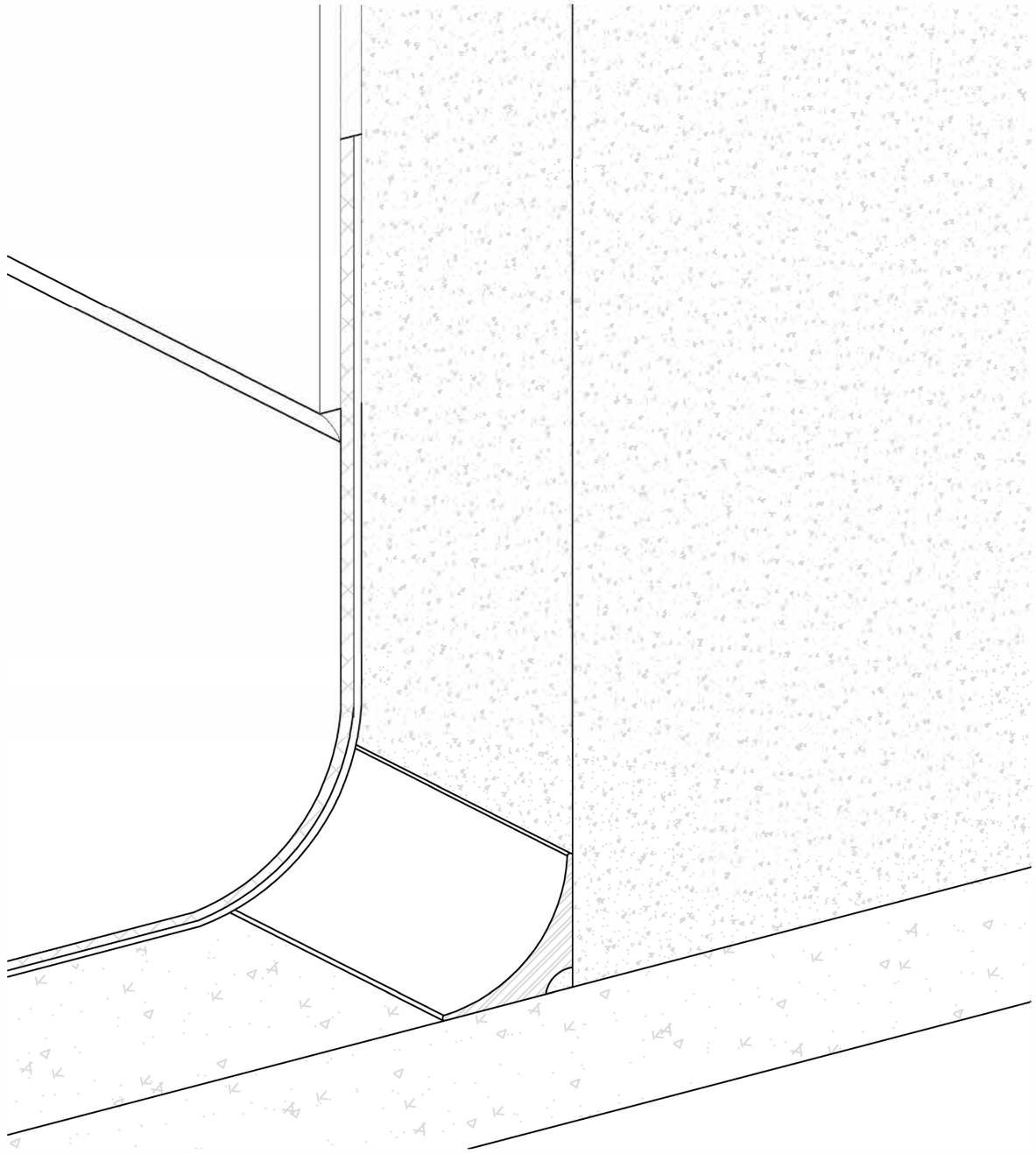

Rev By	Date	Description Of Revision	Rev No.	Drawing Title: Beplas Elite 2.5mm PVC/FRP Wall Cladding To Resin Flooring Detail		
				Contract:		
				Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
				Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-005

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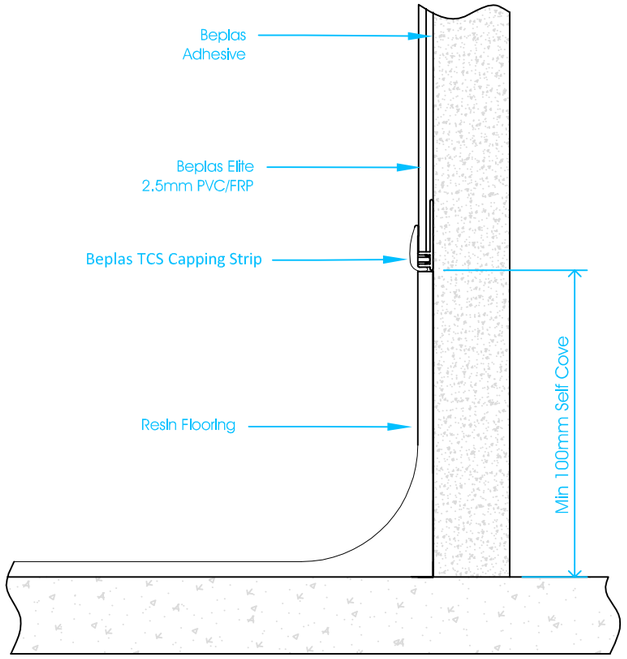

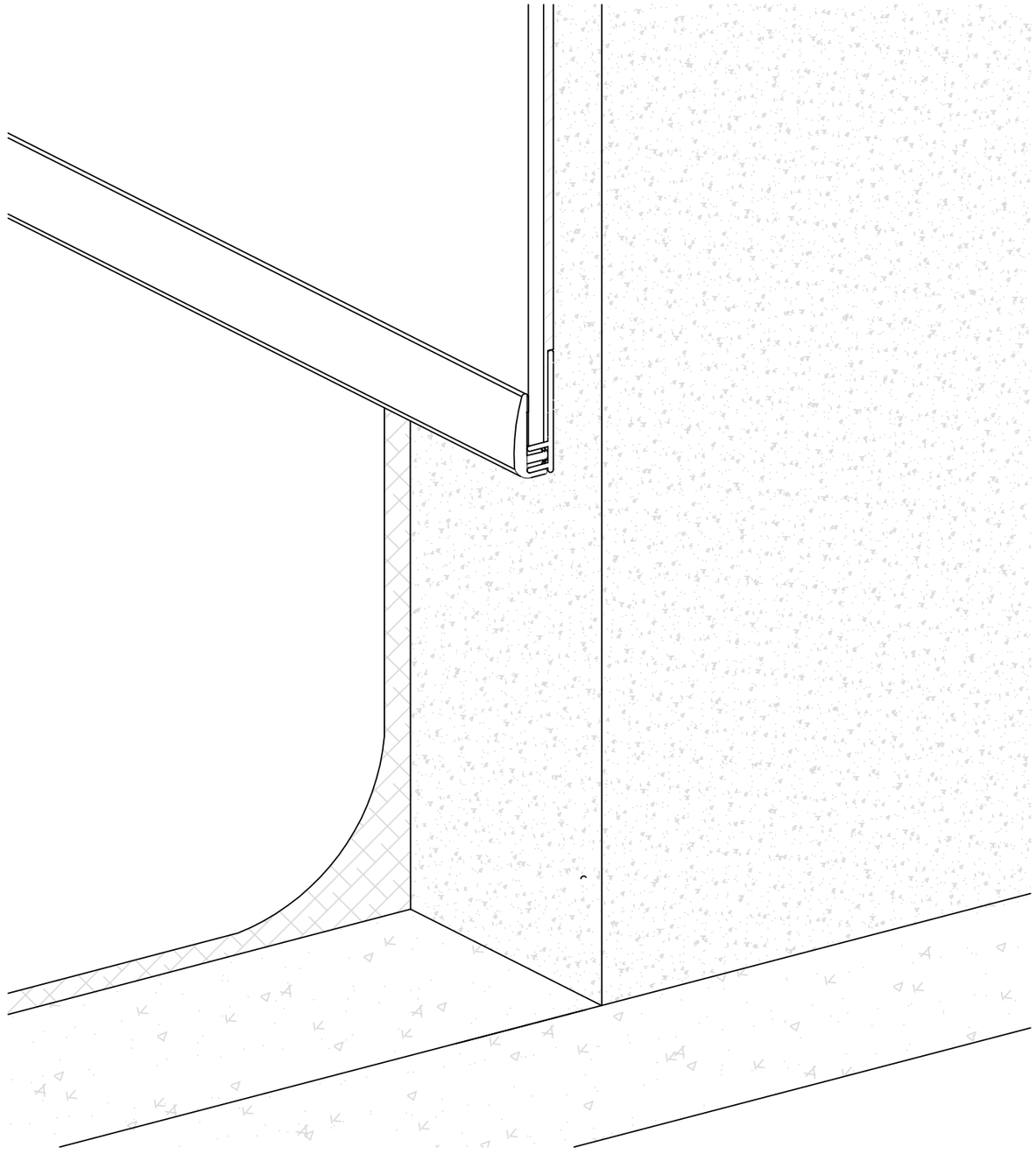

Rev By	Date	Description Of Revision	Rev No.	Drawing Title: Beplas Elite 2.5mm PVC/FRP Wall Cladding To Tile Floor		
				Contract:		
				Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
				Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-007

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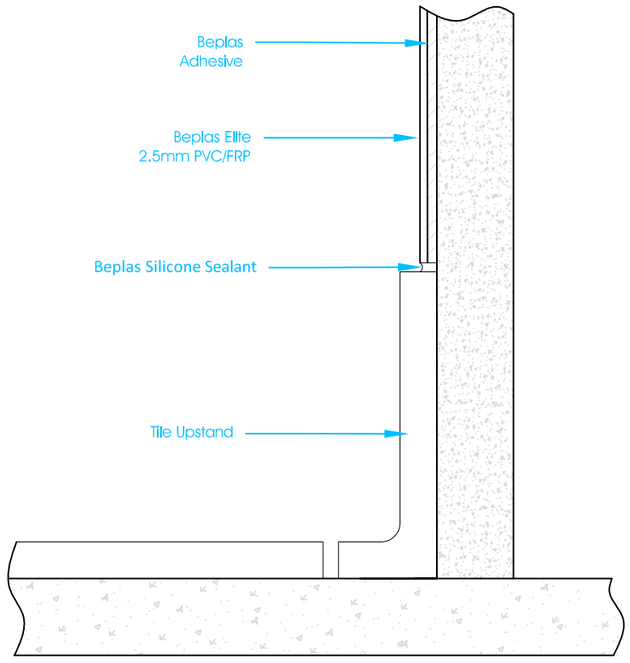

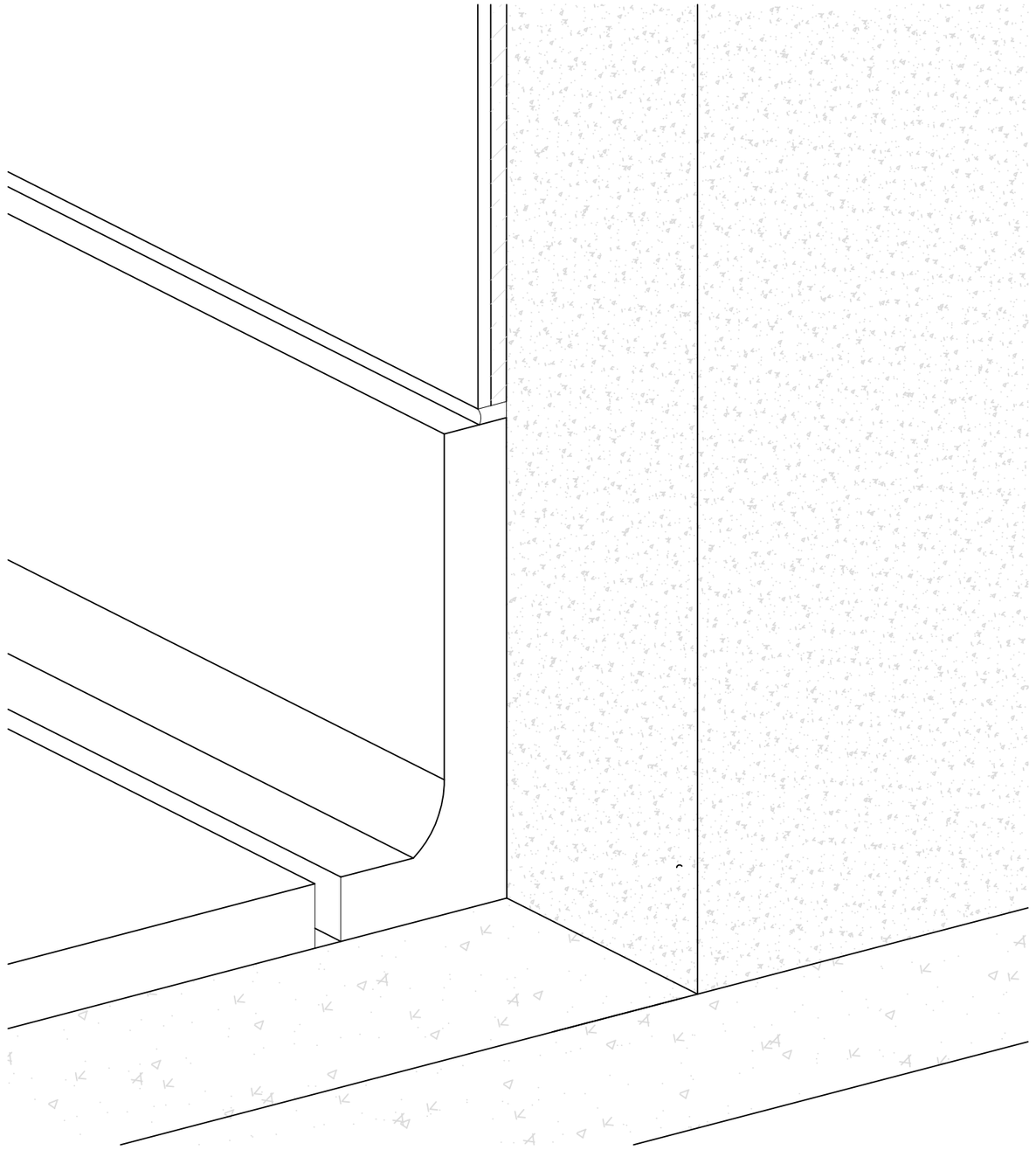

Rev By	Date	Description Of Revision	Rev No.

Drawing Title: Beplas Elite 2.5mm PVC/FRP Wall Cladding To Shower Tray

Contract:

Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-010

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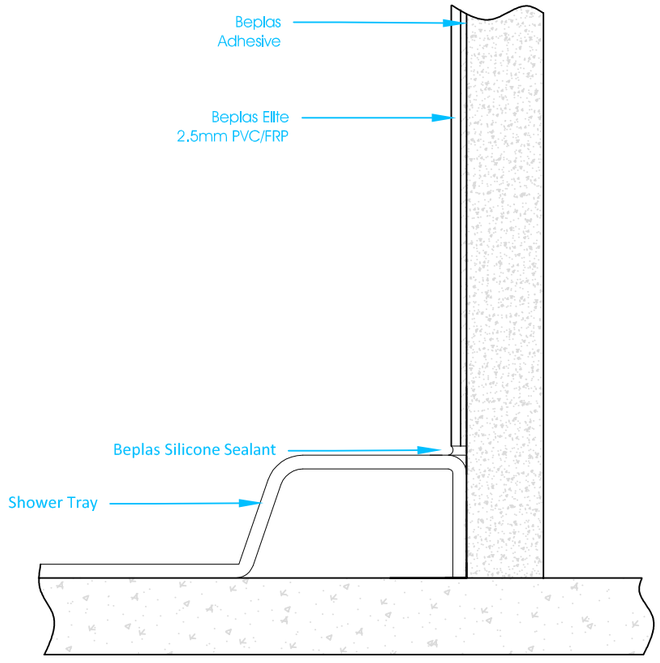

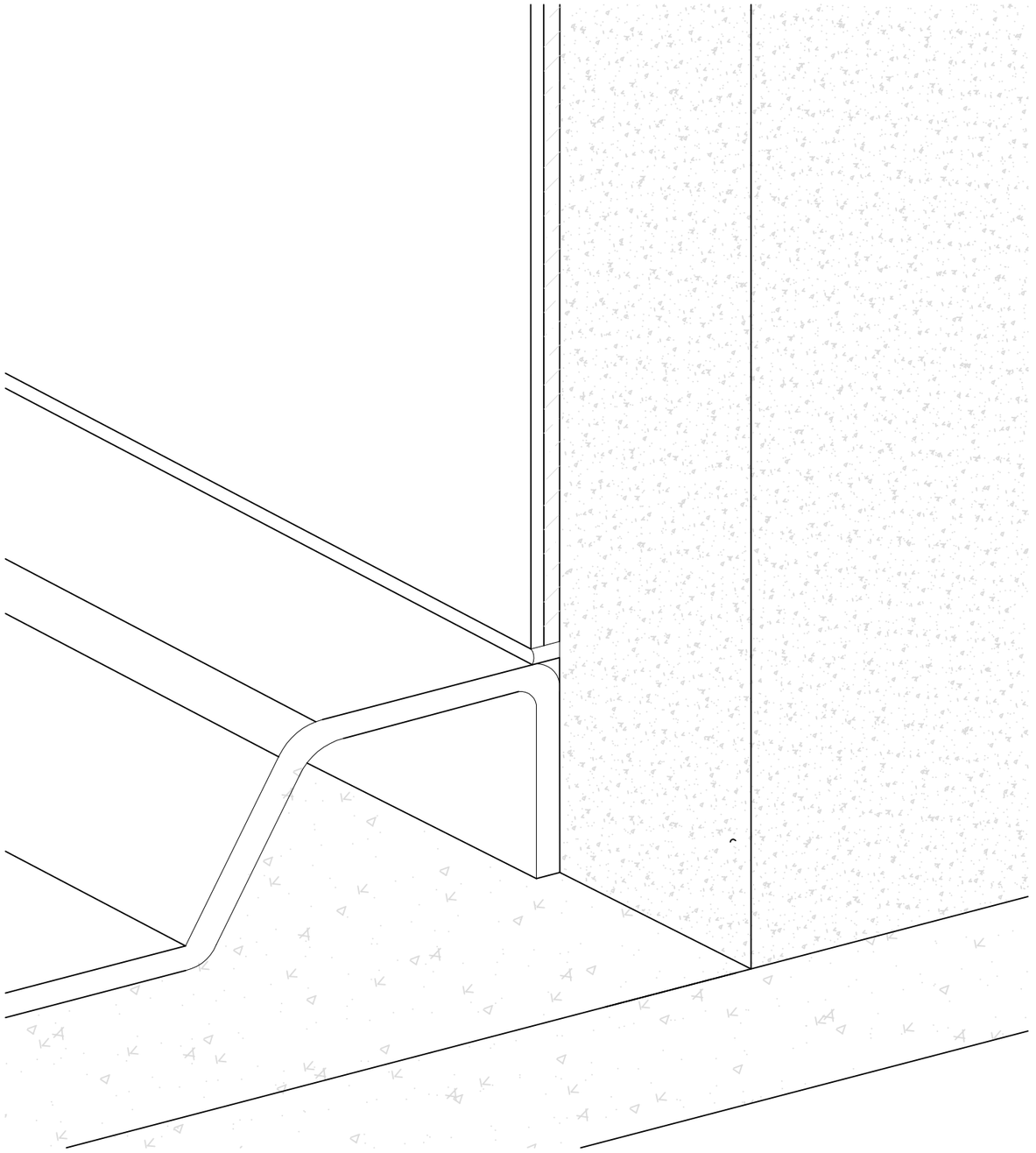

Rev By	Date	Description Of Revision	Rev No.	Drawing Title: Beplas Elite 2.5mm PVC/FRP Wall Cladding To Shower Tray With Trim		
				Contract:		
				Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
				Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-011

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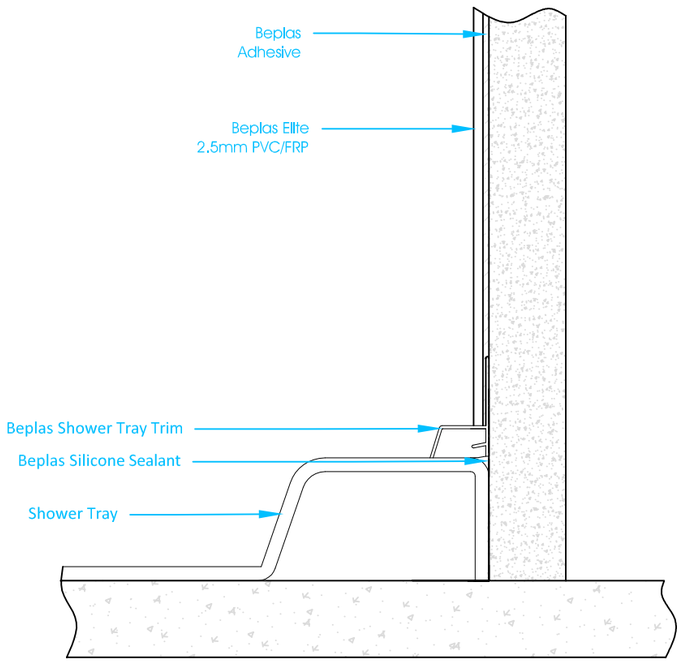

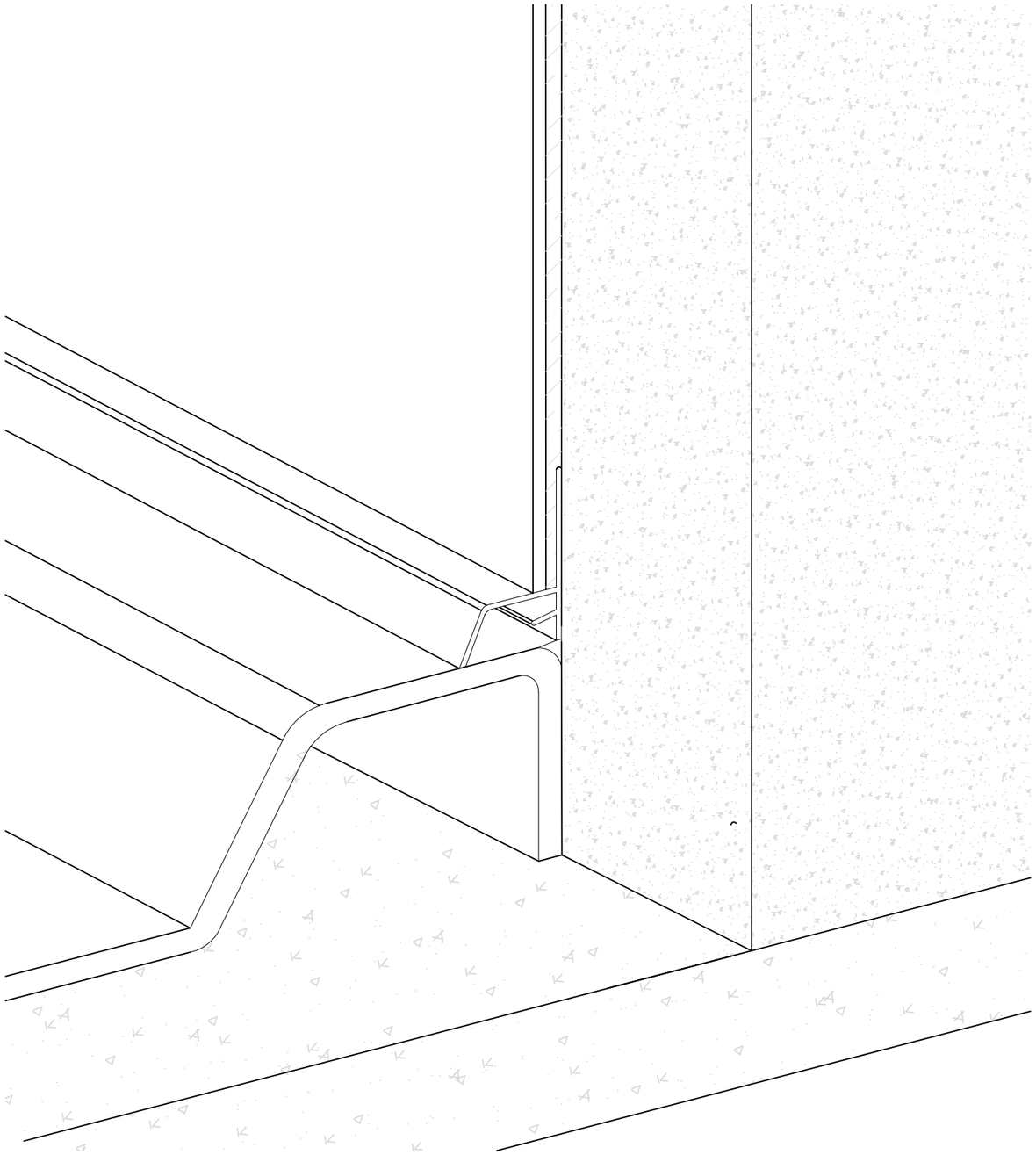

Rev By	Date	Description Of Revision	Rev No.

Drawing Title: Beplas Elite 2.5mm PVC/FRP Wall Cladding Vertical Joint Strip And Thermoformed Corner Detail		
Contract:		
Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-013

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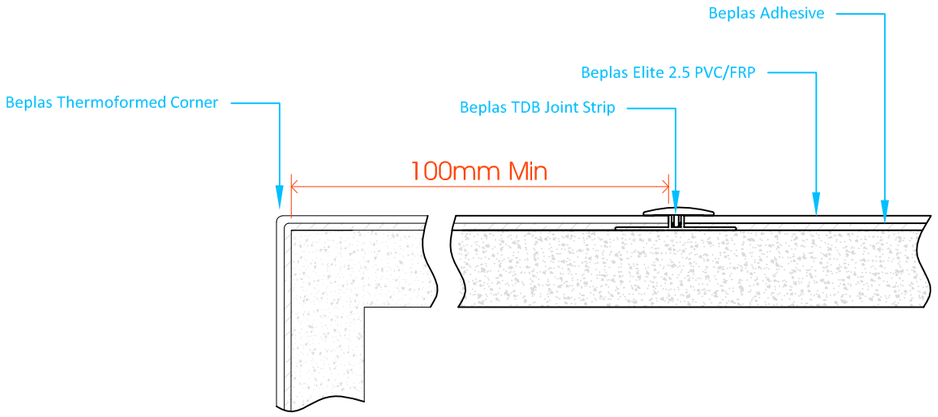

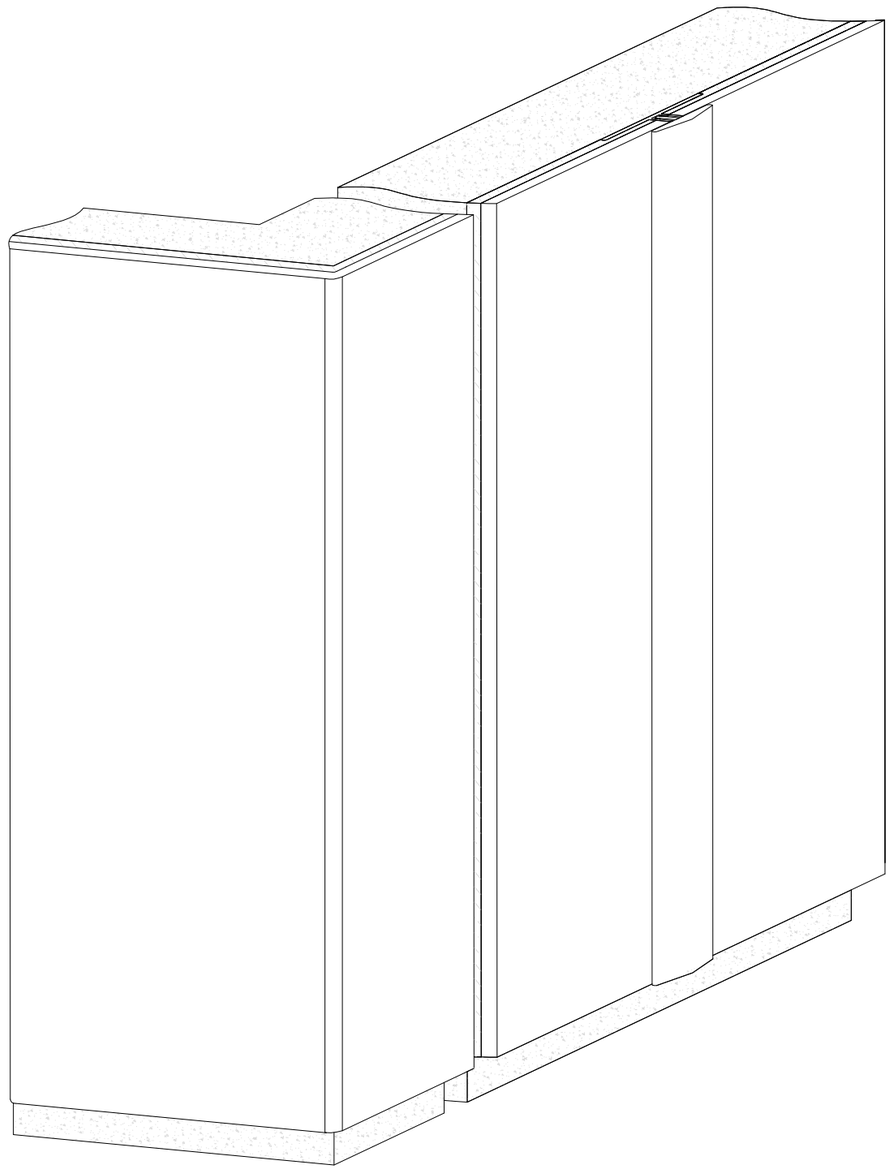

Rev By	Date	Description Of Revision	Rev No.	Drawing Title: Beplas Elite 2.5mm PVC/FRP Wall Cladding Vertical Joint Strip With Internal and External Corner Trims		
				Contract:		
				Scale: 1:1 & 1:2 @ A3	Requested By: JD	Drawn By: IS
				Initial Drawing: 15/05/19	Revision:	Drawing No. Beplas-017

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